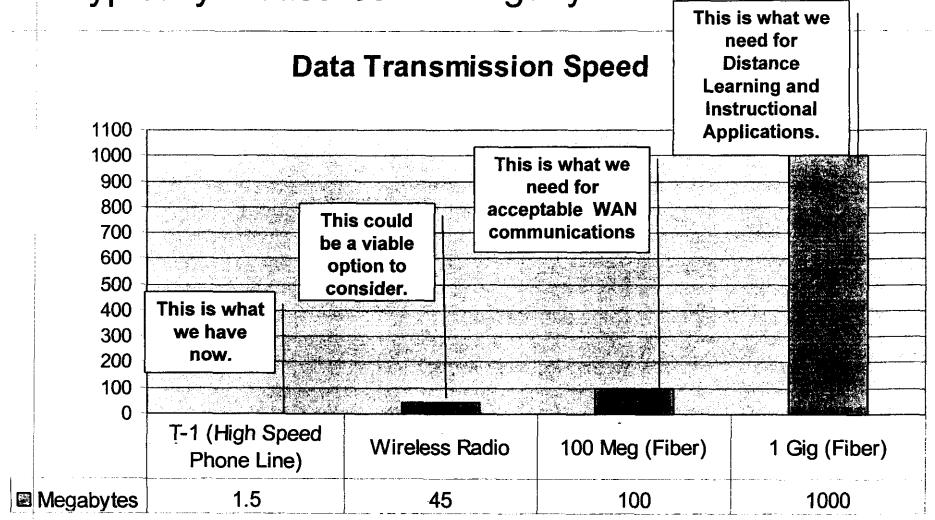
Analysis for Option 3 – WAN Services Summary of Costs

Vendor	Option 1 Internal Connections % Discount	Option 2 Internet Access per year	Option 3 Wide Area Network Services (5 years)	Option 4 Voice/ IP Solutions % Discount	Option 5 Other Technology Solutions	Option 6 19 Instructional Fileservers Aprvd. 12-8-03
Time Warner			\$845,000 \$1,760,000			
IBM			\$1,680,725			
Trillion Unite			\$1,667,700 \$1,884,140			
Verizon		i	\$1,861,744			i
Interfacing Co. of			<u> </u>	<u></u>		
Texas (ICTX)			\$2,152,482 \$2,380,000			į
Phonoscope Gateway			\$1,140,000	<u></u>	·	-
MSC	<u></u>					

What Are Our Upgrade Options?

Increase the network bandwidth, which is typically measured in "megabytes."



Analysis for Option 3 – WAN Services

- Recommendation:
 - T ime Warner
 - Shorter-term solution (3 years)
 - P honoscope
 - Longer-term, partnered solution (5-10 years)
- Received 7 proposals. Evaluated each carefully.
 - •Time Warner Option 3 Lowest Cost
 - •Phonoscope Option 3 ← Best Value over 15 year period
 - ·ICTX
 - Verizon
 - Unite
 - **·IBM**
 - Trillion

Types of WAN Services

Managed Service

- This is E-Rate eligible.
- This is similar to basic phone services; the customer never owns the fiber network lines.
- Includes monitoring of the network.

Leased Service

- This is how we filed last year.
- There have been changes in how E-Rate will fund this option.
- At the end of the contract, the fiber could be relinquished to GCCISD.

Type of Connectivity

- Wireless
- Aerial Fiber
- Underground Fiber

Analysis for Option 3 – WAN Services

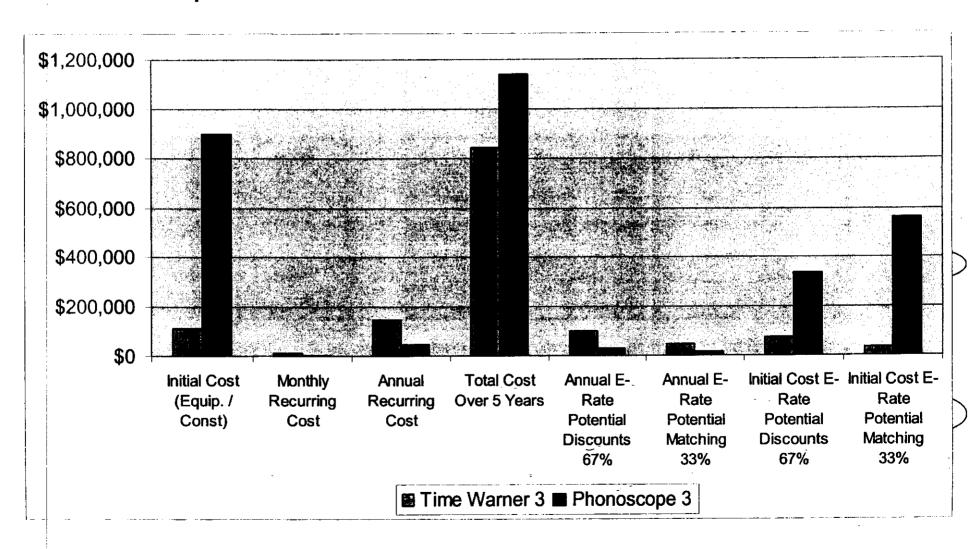
Connection and Solution Type Comparison

Vendor	Connection Type	Connection Placement	Bandwidth in Megabytes	Solution	Contract Term
Current WAN	T-1	Aerial	71.5	Managed	ongoing
Unite	Fiber	Aerial	1000	Managed	10
ICTX	Fiber **	Underground	1000	Managed	10
Time Warner 3	Fiber	Aerial	100	Managed	3
Time Warner 5	Fiber	Aerial	1000	Managed	5
Time Warner 10	Fiber	Aerial	1000	Managed	10
Phonoscope 1	Fiber	Aerial	1000	Managed	10
Phonoscope 2	Fiber	Aerial	1000	Managed	10
Phonoscope 3	Fiber	Aerial	1000	Leased	15
Verizon 1	Fiber	Underground	1 <u>9</u> 00	Leased	10
Verizon 2	Fiber	Underground	1000	Managed	10
Trillion	Wireless	Aerial	45	Leased	10
IBM	Wireless	Aerial	100	Leased	10

Analysis for Option 3 – WAN Services Cost Comparison for 5 Years with Potential E-Rate Discounts

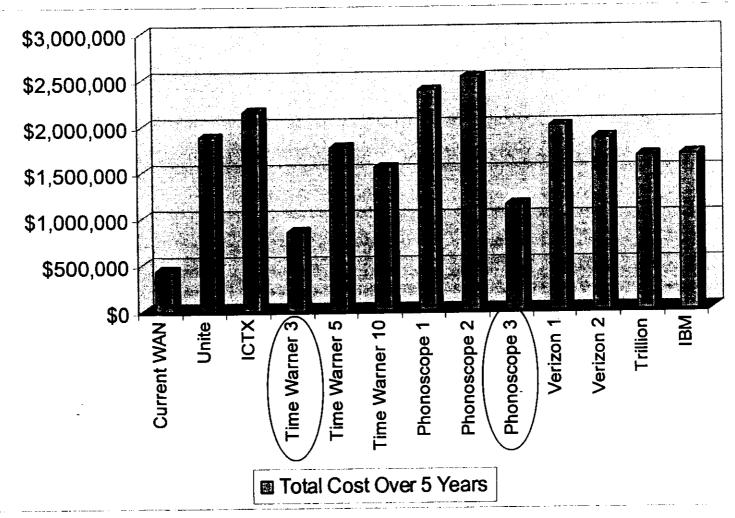
10 times faster than Time Warner	Initial Cost (Equip. / Const)	Monthly Recurring Cost	Annual Recurring Cost	Total Cost Over 5 Years	Annual E- Rate Potential Discounts 67%	Annual E- Rate Potential Matching 33%	Initial Cost E-Rate Potential Discounts 67%	Initial Cost E-Rate Potential Matching 33%
Current WAN	\$0	\$7,148	\$85,776	\$428,880	\$57,470.	\$28,306	\$0	\$0
Unite	\$500,000	\$23,069	\$276,828	\$1,884,140	\$185,475	\$91,353	\$335,000	\$165,000
ICTX	\$1,935,702	\$3,613	\$43,356	\$2,152,482	\$29,049	\$14,307	\$335,000	\$1,600,702
Time Warner 3	\$110,000	\$12,250	\$147,000	\$845,000	\$98,490	\$48,510	\$73,700	\$36,300
Time Warner 5	\$380,000	\$23,000	\$276,000	\$1,760,000	\$184,920	\$91,080	\$254,600	\$125,400
Time Warner 10	\$380,000	\$19,500	\$234,000	\$1,550,000	\$156,780	\$77,220	\$254,600	\$125,400
Phonoscope 1	\$400,000	\$33,000	\$396,000	\$2,380,000	\$265,320	\$130,680	\$268,000	\$132,000
Phonoscope 2	\$450,000	\$34,500	\$414,000	\$2,520,000	\$277,380	\$136,620	\$301,500	\$148,500
Phonoscope 3	\$900,000	\$4,000	\$48,000	\$1,140,000	\$32,160	\$15,840	\$335,000	\$565,000
Verizon 1	\$1,813,565	\$0	\$35,739	\$1,992,260	\$23,945	\$11,794	\$335,000	\$1,478,565
Verizon 2	\$0	\$31,029	\$372,349	\$1,861,744	\$249,474	\$122,875	\$0	\$0
Trillion	\$0	\$27,795	\$333,540	\$1,667,700	\$223,472	\$110,068	\$0	\$0
IBM	\$1,680,725	\$0	\$0	\$1,680,725	\$225,217	\$110,928	\$335,000	\$1,345,725

Analysis for Option 3 – WAN Services Cost Comparison for 5 Years with Potential E-Rate Discounts



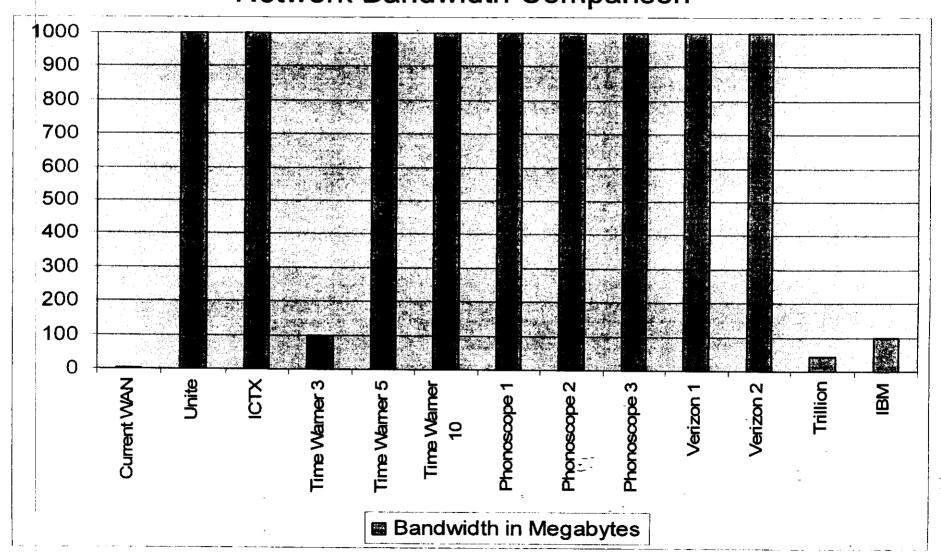
Analysis for Option 3 – WAN Services

Cost Comparison for 5 Years



Analysis for Option 3 – WAN Services

Network Bandwidth Comparison



Time Warner

Advantages:

- Lowest initial cost
- Shortest deployment time fiber already in place
- All inclusive price no maintenance charges

> Disadvantages:

- Short term solution at 100 megabytes
 - GCCISD will eventually need 1000 megabytes (Gig) long term
- No option for ownership
- No redundancy
- No input in design

<u>Phonoscope</u>

Filed with Phonoscope Last Year for E-Rate Discounts

- A draft contract has been reviewed
- > Advantages:
 - Excellent design
 - Greatest presence in Texas Education Region IV
 - Includes maintenance and repair in contract
 - Would work with GCCISD in developing a partnership
 - We could provide design considerations
- Disadvantages:
 - More upfront investment
 - Construction could take 1-year to 18 months

If Time Warner is selected, we could discuss moving to Time Warner at 7 key locations without increasing current cost.

Replace Verizon's 7 T-1 Lines at full price with Time Warner's Fiber Price for less cost.

Current Monthly Cost

0 T-1 lines grandfathered at \$84.88	1697.60
new T-1 lines at full price	3616.95
ternet fee for Time Warner	1833.33

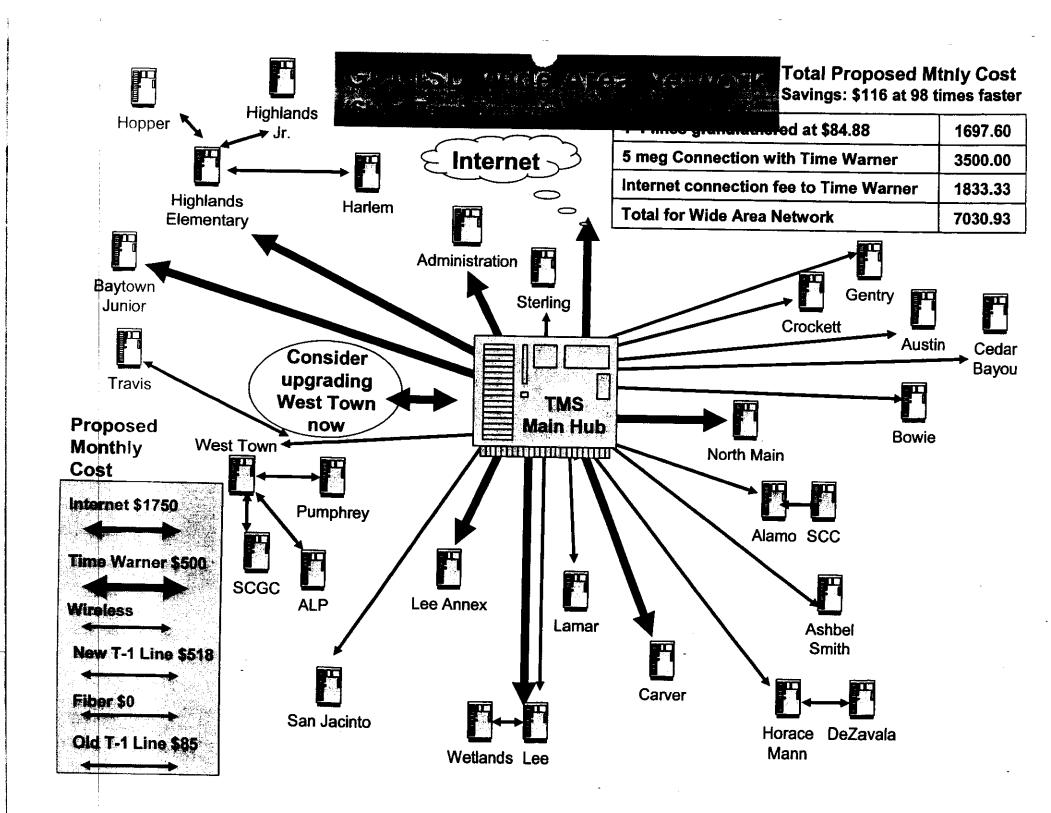
Total for Wide Area Network

Proposed Monthly Cost

20 T-1 lines grandfathered at \$84.88	1697.60
5 meg Connection with Time Warner	3500.00
Internet fee for Time Warner	1833.33
Total for Wide Area Network	7030.93

Savings: \$116 per month at 98 times faster

7147.88



<u>Verizon</u>

Advantages:

- Excellent design
 - Underground fiber
- Includes a longer-term vision with telephony, data, and video
- Current provider for T-1 lines and phones
- Willing to work in partnership with GCCISD and relinquish rights at the end of the contract

Disadvantages:

- More Expensive
- Includes associated maintenance costs for locating and fixing underground fiber
- Recent change in management
- Unclear as to whether or not Verizon has successfully completed a fiber project of this magnitude in this area
 - Have successfully completed projects in Lewisville, Cedar Hill, South Lake, and Irving
 - Construction would take 1 year to 18 months

Interfacing Company of Texas

Advantages:

- Excellent, redundant design
- Underground
- Small business wanting to grow in this area

- > Disadvantages:
 - Minimal presence
 - Completed projects in Conroe and Spring
 - More expensive

Unite

Advantages:

- Good design
- Good references
- Excellent proposal

- Disadvantages:
 - Company not local (from Missouri)
 - No redundancy
 - Smaller business with no market presence in this area

<u>IBM</u>

Advantages:

- Lower construction and monthly support cost
- Less infrastructure to maintain (only poles and radios)
- Technology advancing quickly
- Includes "licensed" wireless connectivity
- Could use for outlying areas as a means for connectivity
 - Successfully ran a pilot from the Administrative building to Sterling High School for 30 days

Disadvantages:

- Some unknown variables
 - Network performance, total cost of ownership, future capability
- Offering 100 megabyte connection
- Highest bandwidth available is 650 megabytes

Trillion

Advantages:

- Redundant design
- Web-based monitoring
- Short amount of time for installation/setup

- > Disadvantages:
 - Only offers 45 megabyte connection
 - Includes unlicensed connectivity
 - Possible interference in signals
 - Less security

Next Steps

Seek Board Direction on the Fiber Network Project and Applying for E-Rate

- Request action at the January 20, 2004 Board Meeting to:
 - Approve and award Options 1-6 of the RFP.
 - Option 1 IBM
 - Option 2 Time Warner
 - Option 3 Determine best strategy for GCCISD at this time.
 - Short-term Time Warner
 - Long-term Phonoscope
 - Option 4 IBM
 - Option 5 IBM
 - Option 6 IBM
- File E-Rate Application for 2005-2006, due on February 4, 2004, based on RFP recommendations (Options 1-5)
- Initiate conversation regarding a transition to Time Warner Cable for a 100 meg connection at key locations.
- Discuss future technology infrastructure upgrade funding options.
 - Include costs for Wide Area Network upgrade in the new Bond
 - Budget for the Wide Area Network upgrade in phases

Application ID: 411530

Do not write in this area



Entity Number 141322	Applicant's Form Identifier GC-FJ-2&3 WAN	
Contact Person Frankie Jackson	Phone Number 281 420-4934	

Block 6: Certifications and Signature

- 24 The entities listed in Block 4 of this application are eligible for support because they are: (Check one or both.)
 - a schools under the statutory definitions of elementary and secondary schools found in the No Child Left Behind Act of 2001, 20 U.S.C. Secs. 7801(18) and (38), that do not operate as for-profit businesses and do not have endowments exceeding \$50 million; and/or
 - b libraries or library consortie eligible for assistance from a State library administrative agency under the Library Services and Technology Act of 1995 that do not operate as for-profit businesses and whose budgets are completely separate from any schools, including, but not limited to, elementary and secondary schools, colleges, or universities.
- 25 The entities listed on this application have secured access to all of the resources, including computers, training, software, maintenance, and electrical connections, necessary to make effective use of the services purchased, as well as to pay the discounted charges for eligible services from funds to which access has been secured in the current funding year. I certify that the Billed Entity will pay the non-discount portion of the cost of the goods and services to the service provider(s).
- 26 All of the schools and libraries or library consortia listed in Block 4 of this application are covered by:
 - a an individual technology plan for using the services requested in this application; and/or
 - b X higher-level technology plan(s) for using the services requested in this application; or
 - c no technology plan needed; applying for basic local and long distance telephone service only.
- 27 Status of technology plans (If representing multiple entities with mixed technology plan status, check both a and b):
 - a technology plan(s) has/have been approved; and/or
 - b technology plan(s) will be approved by a state or other authorized body; or
 - c no technology plan needed; applying for basic local and long distance telephone service only.
- 28 I certify that the entities eligible for support that I am representing have compiled with all applicable state and local laws regarding procurement of services for which support is being sought.
- 29 I certify that the services the applicant purchases at discounts provided by 47 U.S.C. Sec. 254 will be used solely for educational purposes and will not be sold, resold, or transferred in consideration for money or any other thing of value.
- 30 I certify that the entity(ies) I represent has compiled with all program rules and I acknowledge that failure to do so may result in denial of discount funding and/or cancellation of funding commitments.
- 31 i understand that the discount level used for shared services is conditional, for future years, upon ensuring that the most disadvantaged schools and libraries that are treated as sharing in the service, receive an appropriate share of benefits from those services.
- 32 I recognize that I may be audited pursuant to this application. I will retain for five years any and all worksheets and other records that I rely upon to fill out this application, and, if audited, will make available to the Administrator such records.
- 33 I certify that I am authorized to submit this request on behalf of the above-named entities, that I have examined this request, and to the best of my knowledge, information, and belief, all statements of fact contained herein are true.

Li

Application ID_411530

141322 Applicant's Form Identifier GC-FJ-2&3 WAN **Entity Number** Frankie Jackson Contact Person 281 420-4934 Phone Number

34. Signature of authorized person

35. Date

02022004

,

36. Printed name of authorized person

Cote Pete

37. Title or position of authorized person

Executive Director

38s. Street Address, P.O. Box, or Route Number

6 0 7 W. Baker

City

Baytown

State

Zip Code

7 7 5 2 0

38h. Telephone number of authorized person

Extension

38c. Fax number of authorized person

281 421-3274

38d. E-mail address of authorized person

rpcote@gccisd.net

can be punished by fine or forfetture, under the Communications Act, 47 U.S.C. Secs, 502, 502(b), or fine or impair

Entity Number	141322	Applicant's Form identifie	GC-FJ-2&3 WAN
Contact Person	Frankie Jackson	Phone Number	281 420-4934

NOTICE: Section 54.504 of the Federal Communications Commission's rules requires all schools and libraries ordering services that are eligible for and seeking universal service discounts to file this Services Ordered and Certification Form (FCC Form 471) with the Universal Service Administrator. 47 C.F.R. § 54.504. The collection of information stems from the Commission's authority under Section 254 of the Communications Act of 1934, as amended. 47 U.S.C. § 254. The data in the report will be used to ensure that schools and libraries comply with the competitive bidding requirement contained in 47 C.F.R. § 54.504. All schools and libraries planning to order services eligible for universal service discounts must file this form themselves or as part of a consortium.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

The FCC is authorized under the Communications Act of 1934, as amended, to collect the information we request in this form. We will use the information you provide to determine whether approving this application is in the public interest. If we believe there may be a violation or a potential violation of a FCC statute, regulation, rule or order, your application may be referred to the Federal, state, or local agency responsible for investigating, prosecuting, enforcing, or implementing the statute, rule, regulation or order. In certain cases, the information in your application may be disclosed to the Department of Justice or a court or adjudicative body when (a) the FCC; or (b) any employee of the FCC; or (c) the United States Government is a party of a proceeding before the body or has an interest in the proceeding. In addition, consistent with the Communications Act of 1934, FCC regulations and orders, the Freedom of Information Act, 5 U.S.C. § 552, or other applicable law, information provided in or submitted with this form or in response to subsequent inquiries may be disclosed to the public.

If you owe a past due debt to the Federal government, the information you provide may also be disclosed to the Department of the Treasury Financial Management Service, other Federal agencies and/or your employer to offset your salary, IRS tax refund or other payments to collect that debt. The FCC may also provide the information to these agencies through the matching of computer records when authorized.

If you do not provide the information we request on the form, the FCC may delay processing of your application or may return your application without action.

The foregoing Notice is required by the Paperwork Reduction Act of 1995, Pub. L. No. 104-13, 44 U.S.C. § 3501, et seq.

Public reporting burden for this collection of information is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, completing, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the reporting burden to the Federal Communications Commission, Performance Evaluation and Records Management, Washington, DC 20554.

Please submit this form to:

SLD-Form 471 P.O. Box 7026 Lawrence, Kansas 66044-7026

For express delivery services or U.S. Postal Service, Return Receipt Requested, mail this form to:

SLD-Form 471 c/o Ms. Smith 3833 Greenway Drive Lawrence, Kansas 66046 (888) 203-8100



Schools and Libraries Universal Service Program Services Ordered and Certification Form 471 Application Display

Refresh Page

Close Print Preview

Block 1: Billed Entity Information -

Applicant's Form Identifier: GC-FJ-2&3

WAN

471 Application Number: 411530

Funding Year: 07/01/2004 -

06/30/2005

Form Status: INCOMPLETE

Billed Entity Number:

141322 RAL Date:

Cert. Postmark Date:

Out of Window Letter Date:

Name: GOOSE CREEK CONS IND SCH DIST

Address: 4544 INTERSTATE 10 EA City: BAYTOWN State: TX Zip: 77521

Phone: 281-420-4800 Ext:

Fax: 281-420-4854

E-mail:

Contact Name: Frankie Jackson

Address: 607 W. Baker

City: Baytown State: TX Zip: 77520 Contact Phone: 281-420-4934 Ext: Contact Fax: 281-420-4637 Ext: E-mall: fjjackson@gccisd.net

Contact Mode: EMAIL

Alternate Contact Info.: Spring Break: March 6-12; work during summer

Type of Application: SCHOOL DISTRICT

Ineligible Orgs: N

Block 3: Impact of Services Ordered in THIS Application

Number of students to be served: 19238

Number of library patrons to be served:

SERVICE DESCRIPTION	BEFORE ORDER	AFTER ORDER	
a. (Schools/districts/consortia only) Telephone service: How many classrooms had phone service before and after your order?	0	0	
 b. High-bandwidth voice/data/video service: How many buildings served before and after your order? 	0	26	
 c. High-bandwidth voice/data/video service: Highest speed to a building before and after your order? 	T-1 line	100 meg fiber	
d. Dial-up Internet connections: How many before and after your order?	0	0	
e. Dial-up Internet connections: Highest speed before and after your order?	0	0	

Direct connections to the Internet: How many before and after your order? g. Direct connections to the Internet: Highest speed before and after your order? 5 meg 1.5 meg h. Internet access(for schools): How many rooms have Internet access before and 874 874 after your order? . Internet Access: How many computers (or other devices) with Internet access 6656 6656 before and after your order? k. Other technology outcomes: (please specify):

Block 4: Worksheets

Worksheet A No: 568411

Student Count: 19337

Weighted Product (Sum. Column 8): 14358.5

Shared Discount: 74%

- 1. School Name: ALAMO ELEMENTARY SCHOOL 2. Entity Number: 89705 3. Rural/Urban: Urban
- 4. Student Count: 526 5. NSLP Students: 338 6. NSLP Students/Students: 64.258%
- 7. Discount: 80%
- 8. Weighted Product: 420.8
- 1. School Name: ALTERNATIVE SCHOOL
- 2. Entity Number:

226286

3. Rural/Urban: Urban

- 4. Student Count: 86 7. Discount: 80%
- 5. NSLP Students: 53 6. NSLP Students/Students: 61.627% 8. Weighted Product: 68.8
- 1. School Name: ASHBEL SMITH ELEMENTARY SCHOOL
- 2. Entity Number: 89706 3. Rural/Urban: Urban
- 4. Student Count: 744 5. NSLP Students: 605 6. NSLP Students/Students: 81.317%
- 7. Discount: 90%
- 8. Weighted Product: 669.6
- 1. School Name: AUSTIN ELEMENTARY SCHOOL
- 2. Entity Number: 89707 3. Rural/Urban: Urban
- 4. Student Count: 865 5. NSLP Students: 176 6. NSLP Students/Students: 20.346%
- 7. Discount: 50%
- 8. Weighted Product: 432.5
- 1. School Name: BAYTOWN JUNIOR HIGH SCHOOL
- 2. Entity Number: 89690 3. Rural/Urban: Urban
- 4. Student Count: 804 5. NSLP Students: 530 6. NSLP Students/Students: 65.920%
- 7. Discount: 80%
- 8. Weighted Product: 643.2
- 1. School Name: BOWIE ELEMENTARY SCHOOL
- 2. Entity Number: 89692 3. Rural/Urban: Urban
- 4. Student Count: 513 5. NSLP Students: 358 6. NSLP Students/Students: 69.785%
- 7. Discount: 80%
- 8. Weighted Product: 410.4
- 1. School Name: CARVER ELEMENTARY SCHOOL
- 2. Entity Number: 89708 3, Rural/Urban: Urban
- 4. Student Count: 785 5. NSLP Students: 662 6. NSLP Students/Students: 84.331%
- 7. Discount: 90%
- 8. Weighted Product: 706.5

- 1. School Name: CEDAR BAYOU JUNIOR HIGH SCHOOL
- 2. Entity Number: 89709 3. Rural/Urban: Urban
- 4. Student Count: 1022 5. NSLP Students: 597 6. NSLP Students/Students: 58.414%
- 7. Discount: 80%
- 8. Weighted Product: 817.6
- 1. School Name: CROCKETT ELEMENTARY SCHOOL
- 2. Entity Number: 89700 3. Rural/Urban: Urban
- 4. Student Count: 678 5. NSLP Students: 397 6. NSLP Students/Students: 58.554%
- 7. Discount: 80%
- 8. Weighted Product: 542.4
- 1: School Name: GENTRY JUNIOR HIGH SCHOOL
- 2. Entity Number: 89710 3. Rural/Urban: Urban
- 4. Student Count: 804 5. NSLP Students: 312 6. NSLP Students/Students: 38.805%
- 7. Discount: 60%
- 8. Weighted Product: 482.4
- 1. School Name: HARLEM ELEMENTARY SCHOOL
- 2. Entity Number: 89698 3. Rural/Urban: Urban
- 4. Student Count: 753 5. NSLP Students: 411 6. NSLP Students/Students: 54.581%
- 7. Discount: 80%
- 8. Weighted Product: 602.4
- 1. School Name: HIGHLANDS ELEMENTARY SCHOOL
- 2. Entity Number: 89703 3. Rural/Urban: Urban
- 4. Student Count: 755 5. NSLP Students: 344 6. NSLP Students/Students: 45.562%
- 7. Discount: 60%
- 8. Weighted Product: 453
- 1. School Name: HIGHLANDS JUNIOR HIGH SCHOOL
- 2. Entity Number: 89704 3. Rural/Urban: Urban

- 4. Student Count: 722 5. NSLP Students: 293 6. NSLP Students/Students: 40.581%
- 7. Discount: 60%
- 8. Weighted Product: 433.2
- 1. School Name: HOPPER PRIMARY SCHOOL
- 2. Entity Number: 89711 3. Rural/Urban: Urban
- 4. Student Count: 473 5. NSLP Students: 266 6. NSLP Students/Students: 56.236%
- 7. Discount: 80%
- 8. Weighted Product: 378.4
- 1. School Name: LAMAR ELEMENTARY SCHOOL
- 2. Entity Number: 89693 3. Rural/Urban: Urban
- 4. Student Count: 848 5. NSLP Students: 701 6. NSLP Students/Students: 82.665%
- 7. Discount: 90%
- 8. Weighted Product: 763.2
- 1. School Name: LEE HIGH SCHOOL
- 2. Entity Number: 89695 3. Rural/Urban: Urban
- 4. Student Count: 2347 5. NSLP Students: 1388 6. NSLP Students/Students: 59,139%
- 7. Discount: 80%
- 8. Weighted Product: 1877.6
- 1. School Name: LORENZO DE ZAVALA ELEM SCHOOL
- 2. Entity Number: 89697 3. Rural/Urban; Urban
- 4. Student Count: 826 5. NSLP Students: 521 6. NSLP Students/Students: 63.075%
- 7. Discount: 80%
- 8. Weighted Product: 660.8
- 1. School Name: MANN JUNIOR HIGH SCHOOL
- 2. Entity Number: 89712 3. Rural/Urban: Urban
- 4. Student Count: 954 5. NSLP Students: 730 6. NSLP Students/Students: 76.519%
- 7. Discount: 90% 8. Weighted Product: 858.6
- 1. School Name: NIGHT SCHOOL